

Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2016, Massachusetts

Year	Coal	Natural Gas ^a	Petroleum						Hydro-electric Power ^{e,f}	Biomass		Geo-thermal ^f	Solar ^{f,i}	Retail Electricity Sales	Net Energy ^{f,j}	Electrical System Energy Losses ^k	Total ^{f,j}
			Distillate Fuel Oil	HGL ^b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total		Wood and Waste ^{f,g}	Losses and Co-products ^h						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh				Million kWh				
1960	1,266	12	2,322	260	133	17,875	4,351	24,942	117	--	--	--	NA	5,075	--	--	--
1965	496	20	2,841	401	206	25,076	4,889	33,412	100	--	--	--	NA	6,546	--	--	--
1970	149	23	2,897	693	111	25,742	4,745	34,188	72	--	--	--	NA	7,418	--	--	--
1975	110	24	2,654	1,099	81	15,891	3,203	22,928	67	--	--	--	NA	7,330	--	--	--
1980	98	29	1,886	1,305	91	2,663	2,962	8,906	63	--	--	--	NA	8,486	--	--	--
1985	176	33	1,165	448	367	8,399	2,595	12,974	63	--	--	--	NA	9,454	--	--	--
1990	73	44	2,585	973	414	2,604	2,493	9,070	11	--	--	--	(s)	10,157	--	--	--
1995	42	64	1,278	387	373	1,458	2,265	5,760	11	--	--	--	(s)	10,026	--	--	--
1996	38	62	1,219	495	372	1,690	2,310	6,086	20	--	--	--	(s)	10,085	--	--	--
1997	37	65	1,130	163	392	1,723	1,977	5,384	17	--	--	--	(s)	10,148	--	--	--
1998	35	63	1,011	185	316	1,780	2,082	5,374	11	--	--	--	(s)	10,212	--	--	--
1999	33	78	1,217	348	297	900	2,303	5,066	12	--	--	--	(s)	9,966	--	--	--
2000	55	75	944	651	306	1,099	2,953	5,954	12	--	--	--	(s)	10,533	--	--	--
2001	54	81	1,283	859	913	2,153	2,681	7,888	8	--	--	--	(s)	9,757	--	--	--
2002	44	86	978	649	916	1,732	2,786	7,061	6	--	--	--	(s)	10,087	--	--	--
2003	57	44	1,961	191	937	969	2,200	6,257	5	--	--	--	(s)	9,984	--	--	--
2004	54	44	1,947	67	969	720	2,148	5,851	2	--	--	--	(s)	9,947	--	--	--
2005	68	48	1,895	371	909	767	2,116	6,058	(s)	--	--	--	1	9,871	--	--	--
2006	77	43	1,591	1,186	929	1,115	2,288	7,109	3	--	--	--	(s)	9,602	--	--	--
2007	85	46	1,360	892	791	968	1,661	5,672	14	--	--	--	(s)	9,450	--	--	--
2008	84	45	1,573	153	727	387	943	3,784	8	--	--	--	(s)	9,332	--	--	--
2009	50	39	877	107	692	295	2,816	4,788	9	--	--	--	1	16,754	--	--	--
2010	66	44	1,241	101	904	119	R 2,967	R 5,332	5	--	--	--	1	17,116	--	--	--
2011	62	48	1,265	178	950	229	R 2,924	R 5,545	6	--	--	--	3	16,974	--	--	--
2012	61	44	674	217	921	114	R 2,713	R 4,640	4	--	--	--	10	16,927	--	--	--
2013	59	47	622	246	956	26	R 2,967	R 4,816	4	--	--	--	19	16,463	--	--	--
2014	57	46	742	257	R 762	18	R 3,223	R 5,001	6	--	--	--	33	7,961	--	--	--
2015	45	45	961	214	R 752	26	R 3,109	R 5,062	5	--	--	--	41	7,892	--	--	--
2016	4	46	815	197	759	15	3,172	4,958	1	--	--	--	64	7,507	--	--	--

Trillion Btu																	
1960	33.2	12.0	13.5	1.1	0.7	112.4	27.4	155.0	1.3	34.1	NA	NA	NA	17.3	252.9	42.8	295.7
1965	12.8	20.0	16.5	1.7	1.1	157.6	30.4	207.3	1.0	41.0	NA	NA	NA	22.3	304.5	53.3	357.8
1970	3.6	22.8	16.9	2.6	0.6	161.8	29.5	211.4	0.8	47.8	NA	NA	NA	25.3	311.7	61.2	373.0
1975	2.6	24.1	15.5	4.0	0.4	99.9	19.8	139.6	0.7	39.0	NA	NA	NA	25.0	231.0	60.0	291.0
1980	2.4	29.4	11.0	4.7	0.5	16.7	17.9	50.8	0.7	27.8	NA	NA	NA	29.0	137.6	69.6	207.1
1985	4.4	33.9	6.8	1.6	1.9	52.8	15.5	78.6	0.7	32.6	0.0	NA	NA	32.3	181.9	73.9	255.8
1990	1.8	45.9	15.1	3.5	2.2	16.4	15.4	52.5	0.1	7.6	0.0	0.0	(s)	34.7	142.5	79.5	222.0
1995	1.1	65.2	7.4	1.4	1.9	9.2	14.0	34.0	0.1	9.6	0.0	0.0	(s)	34.2	144.1	77.3	221.3
1996	0.9	63.4	7.1	1.8	1.9	10.6	14.4	35.8	0.2	9.8	0.0	0.0	(s)	34.4	144.5	76.2	220.6
1997	0.9	66.1	6.6	0.6	2.0	10.8	12.2	32.2	0.2	10.1	0.0	0.0	(s)	34.6	144.1	72.9	217.0
1998	0.9	64.0	5.9	0.7	1.6	11.2	12.6	32.0	0.1	6.8	0.0	0.0	(s)	34.8	138.6	77.8	216.4
1999	0.8	82.8	7.1	1.2	1.5	5.7	14.0	29.5	0.1	7.0	0.0	0.0	(s)	34.0	154.2	81.4	235.6
2000	1.5	78.2	5.5	2.3	1.6	6.9	18.5	34.8	0.1	6.7	0.0	0.0	(s)	35.9	157.2	81.3	238.5
2001	1.5	84.9	7.5	3.0	4.8	13.5	17.0	45.8	0.1	5.0	0.0	0.0	(s)	33.3	170.5	74.0	244.5
2002	1.2	89.0	5.7	2.3	4.8	10.9	17.6	41.3	0.1	3.2	0.0	0.0	(s)	34.4	169.1	76.9	246.0
2003	1.5	45.4	11.4	0.7	4.9	6.1	13.8	36.9	0.1	3.3	0.0	0.0	(s)	34.1	121.2	70.0	191.2
2004	1.5	44.8	11.3	0.2	5.0	4.5	13.6	34.8	(s)	3.5	0.0	0.0	(s)	33.9	118.5	70.0	188.5
2005	1.9	48.5	11.0	1.3	4.7	4.8	13.3	35.2	(s)	3.5	0.0	0.0	(s)	33.7	122.8	65.3	188.0
2006	2.0	43.7	9.2	4.2	4.8	7.0	14.5	39.8	(s)	4.1	0.0	0.0	(s)	32.8	122.5	64.2	186.7
2007	2.2	47.1	7.9	3.1	4.1	6.1	10.3	31.5	0.1	4.3	0.0	0.0	(s)	32.2	117.5	63.4	180.9
2008	2.2	45.3	9.1	0.5	3.7	2.4	5.6	21.4	0.1	4.2	0.0	0.0	(s)	31.8	105.0	60.3	165.2
2009	1.3	40.6	5.1	0.4	3.5	1.9	18.2	29.0	0.1	3.8	0.0	0.0	(s)	57.2	132.0	103.7	235.8
2010	1.8	45.7	7.2	0.4	4.6	0.7	R 19.2	R 32.1	(s)	R 6.0	0.0	0.0	(s)	58.4	R 144.0	104.9	R 248.9
2011	1.6	49.0	7.3	0.7	4.8	1.4	R 18.9	R 33.2	0.1	R 7.7	0.0	0.0	(s)	57.9	R 149.5	100.3	R 249.8
2012	1.7	45.4	3.9	0.8	4.7	0.7	R 17.6	R 27.7	(s)	R 7.7	0.0	0.0	0.1	57.8	R 140.3	109.9	R 250.3
2013	1.6	48.2	3.6	0.9	4.8	0.2	R 18.9	R 28.4	(s)	R 7.7	0.0	0.0	0.2	56.2	R 142.3	108.6	R 250.9
2014	1.5	46.7	4.3	1.0	3.9	0.1	R 20.5	R 29.8	0.1	R 7.5	0.0	0.0	0.3	27.2	R 113.0	53.2	R 166.2
2015	1.2	45.9	5.5	0.8	3.8	0.2	R 19.8	R 30.1	(s)	R 7.5	0.0	0.0	0.4	26.9	R 112.0	51.9	R 164.0
2016	0.1	47.1	4.7	0.8	3.8	0.1	20.3	29.7	(s)	7.6	0.0	0.0	0.6	25.6	110.6	49.0	159.6

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

^d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Losses and co-products from the production of fuel ethanol.

ⁱ Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

^j For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.